APPLIED TECHNOLOGY ACADEMY

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CompTIA SecurityX Training

CompTIA Authorized Training · Applied Technology Academy

SecurityX (formerly CASP+) covers the technical knowledge and skills required to architect, engineer, integrate, and implement secure solutions across complex environments to support a resilient enterprise while considering the impact of governance, risk, and compliance requirements.

LEVEL	DURATION	EXAM	EXPERIENCE	AVERAGE SALARY
Advanced	**5 Days**	**CAS-005**	**10 years IT, incl. 5 years security**	**$95,000**

Course Overview

CompTIA SecurityX is an advanced cybersecurity certification for experienced security architects and senior security engineers. This expert-level credential validates the ability to lead, design, and enhance an organization's cybersecurity framework. SecurityX-certified professionals demonstrate expertise in implementing robust security strategies, mitigating risks, and ensuring enterprise-wide cybersecurity readiness. This course equips learners with the knowledge and skills to safeguard critical systems and drive cybersecurity innovation in a rapidly evolving threat landscape.

Course Objectives

The CompTIA SecurityX validates that the successful candidate has the knowledge and skills required to:

Architect, engineer, integrate, and implement secure solutions across complex environments to support a resilient enterprise.

Utilize automation, monitoring, detection, and incident response to support ongoing security operations in an enterprise environment proactively.

Apply security best practices across cloud, on-premises, and hybrid environments.

Incorporate cryptographic technologies and techniques to strengthen information security, considering the impact of emerging trends such as artificial intelligence.

Implement appropriate governance, compliance, risk management, and threat-modeling strategies to enhance enterprise security and resilience.

Course Outline

- **Module 1: Introduction**
- **Lesson 1.1: Preassessment**
- **Module 2: Summarizing Governance Risk and Compliance**
- **Lesson 2.1: Implement Appropriate Governance Components**

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- Lesson 2.2: Explain Legal Compliance
- Lesson 2.3: Apply Risk Management Strategies
- Lesson 2.4: Module Quiz
- Module 3: Implementing Architecture and Design
- Lesson 3.1: Apply Software Development (Part 1)
- Lesson 3.2: Apply Software Development (Part 2)
- Lesson 3.3: Integrate Software Architecture (Part 1)
- Lesson 3.4: Integrate Software Architecture (Part 2)
- Lesson 3.5: Support Operational Resilience (Part 1)
- Lesson 3.6: Support Operational Resilience (Part 2)
- Lesson 3.7: Implement Cloud Infrastructure (Part 1)
- Lesson 3.8: Implement Cloud Infrastructure (Part 2)
- Lesson 3.9: Implement Cloud Infrastructure (Part 3)
- Lesson 3.10: Integrate Zero Trust Concepts (Part 1)
- Lesson 3.11: Integrate Zero Trust Concepts (Part 2)
- Lesson 3.12: Troubleshoot using AAA and IAM (Part 1)
- Lesson 3.13: Troubleshoot using AAA and IAM (Part 2)
- Lesson 3.14: Module Quiz
- Module 4: Understanding Security Engineering
- Lesson 4.1: Enhance Endpoint Security (Part 1)
- Lesson 4.2: Enhance Endpoint Security (Part 2)
- Lesson 4.3: Configure Network Infrastructure
- Lesson 4.4: Initiate Security Automation (Part 1)
- Lesson 4.5: Initiate Security Automation (Part 2)
- Lesson 4.6: Apply Cryptography Concepts (Part 1)
- Lesson 4.7: Apply Cryptography Concepts (Part 2)
- Lesson 4.8: Module Quiz
- Module 5: Applying Security Operations and Incident Response
- Lesson 5.1: Perform Threat Modeling
- Lesson 5.2: Examine Security Monitoring (Part 1)
- Lesson 5.3: Examine Security Monitoring (Part 2)
- Lesson 5.4: Analyze Known Attack Methods and Associated Mitigations
- Lesson 5.5: Apply Threat Hunting Tools and Technologies (Part 1)

- **Lesson 5.6: Apply Threat Hunting Tools and Technologies (Part 2)**
- **Lesson 5.7: Evaluate Incident Analysis and Response (Part 1)**
- **Lesson 5.8: Evaluate Incident Analysis and Response (Part 2)**
- **Lesson 5.9: Module Quiz**

Intended Audience

At least 10 years of general hands-on IT experience, including at least 5 years of hands-on security experience, with expertise equivalent to Network+, Security+, CySA+, Cloud+, and PenTest+ certifications or similar knowledge.

Follow-On Courses

- CompTIA CySA+
- CompTIA PenTest+

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.